# **WEST Search History**

DATE: Wednesday, September 03, 2003

Set Name side by side		Hit Count	Set Name result set
DB=US	SPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ		
L1	(solar or photovoltaic) near5 (cell or module)	44012	L1
L2	L1 and front and (back or rear)	5040	L2
L3	L2 and polyurethane	224	L3
L4	L3 and (polyurethane with filler)	4	L4
L5	L3 and filler	72	L5
L6	L5 and (filler with (chalk or glass or silicate))	38	L6
L7	RIM or reaction injection molding or casting or injection molding	659037	L7
L8	16 and L7	26	L8

END OF SEARCH HISTORY

### 作手以

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## Search Results - Record(s) 1 through 26 of 26 returned.

1. Document ID: US 20030087107 A1

L8: Entry 1 of 26

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087107

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030087107 A1

TITLE: Electrochromic polymeric solid films, manufacturing electrochromic devices using such solid films, and processes for making such solid films and devices

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Varaprasad, Desaraju V.	Holland	MI	US	
Zhao, Mingtao	Holland	IM	US	
Dornan, Craig Allen	Grand Haven	IM	US	
Agrawal, Anoop	Tucson	AZ	US	
Allemand, Pierr-Marc	Tucson	ΑŻ	US	
Lynam, Niall R.	Holland	MI	US	

US-CL-CURRENT: 428/432; 359/273, 359/275, 428/442

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw, Desc	Image

2. Document ID: US 20030051751 A1

L8: Entry 2 of 26

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030051751

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030051751 A1

TITLE: Protective sheet for solar battery module, method of fabricating the same and

solar battery module

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yamada, Hiroshi	Shinjuku-ku		JP	
Ookawa, Koujiro	Shinjuku-ku		JP	
Suzuura, Yasuki	Shinjuku-ku		JP	
Goto, Takakazu	Shinjuku-ku		JP	
Arao, Hideki	Shinjuku-ku		JP	
Tsuzuki, Atsuo	Shinjuku-ku		JP	
Takasawa, Kazuyuki	Shinjuku-ku		JP	
Yamamoto, Hiroshi	Shinjuku-ku		JP	
Konno, Katsutoshi	Shinjuku-ku		JP	

US-CL-CURRENT: <u>136/251</u>; <u>136/244</u>, <u>427/74</u>, <u>428/332</u>, <u>428/336</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

3. Document ID: US 20030035917 A1

L8: Entry 3 of 26

File: PGPB

STATE

COUNTRY

Feb 20, 2003

RULE-47

PGPUB-DOCUMENT-NUMBER: 20030035917

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030035917 A1

TITLE: Image making medium

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME CITY

Hyman, Sydney New York NYUS

US-CL-CURRENT: 428/67; 156/58, 428/141, 428/690, 524/106

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw Desc Image

4. Document ID: US 20020148496 A1

L8: Entry 4 of 26

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020148496

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020148496 A1

TITLE: Solar modules with a transparent polyurethane front side and a process for producing same

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME Dorner, Karl-Heinz Ehbing, Hubert Hassler, Christian Ramthun, Jurgen	CITY Pulheim Sudlohn Krefeld Bergisch Gladbach	STATE	COUNTRY DE DE DE DE	RULE-47
Stollwerck, Gunther Eiben, Robert Niedermeyer, Michael Schuster, Peter	Krefeld Lampertheim Altlussheim Altrip		DE DE DE	

US-CL-CURRENT: 136/243; 264/259

Full Title Citation Front Review Classification Date Reference Sequences Attachments KWIC Draw Desc Image

5. Document ID: US 20020050287 A1

L8: Entry 5 of 26

File: PGPB

May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020050287

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020050287 A1

TITLE: Protective sheet for solar battery module, method of fabricating the same and

solar battery module

PUBLICATION-DATE: May 2, 2002

INVENTOR - INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yamada, Hiroshi	Tokyo-To		JP	
Ookawa, Koujiro	Tokyo-To		JP	
Suzuura, Yasuki	Tokyo-To		JP	
Goto, Takakazu	Tokyo-To		JP	
Arao, Hideki	Tokyo-To		JP	
Tsuzuki, Atsuo	Tokyo-To		JP	
Takasawa, Kazuyuki	Tokyo-To		JP	
Yamamoto, Hiroshi	Tokyo-To		JP	
Konno, Katsutoshi	Tokyo-To		JP	

US-CL-CURRENT: 136/251; 136/256

Full Title Citation Front Review Classification Date Reference Sequences Attachments KWIC Draw Desc Image 6. Document ID: US 20020050286 A1

L8: Entry 6 of 26

File: PGPB

May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020050286

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020050286 A1

TITLE: Solar battery module

PUBLICATION-DATE: May 2, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Kubota, Yuichi

Tokyo

JP

US-CL-CURRENT: 136/244

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |

KMC Draw Desc Image

7. Document ID: US 20020012156 A1

L8: Entry 7 of 26

File: PGPB

Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020012156

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020012156 A1

TITLE: Electrochromic polymeric solid films, manufacturing electrochromic devices using such solid films, and processes for making such solid films and devices

PUBLICATION-DATE: January 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Varaprasad, Desaraju V.	Holland	MI	US	
Zhao, Mingtang	Holland	MI	US	
Dornan, Craig Allen	Grand Haven	MI	US	
Agrawal, Anoop	Tucson	AZ	US	
Allemand, Pierre-Marc	Tucson	AZ	US	
Lynam, Niall R.	Holland	IM	US	

US-CL-CURRENT: 359/273; 359/274, 359/275

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWAC	Drawa Desc	Image
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8. Document ID: US 6465726 B2

L8: Entry 8 of 26

File: USPT

Oct 15, 2002

US-PAT-NO: 6465726

DOCUMENT-IDENTIFIER: US 6465726 B2

TITLE: Protective sheet for solar battery module, method of fabricating the same and

solar battery module

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamada; Hiroshi	Tokyo-To			JP
Ookawa; Koujiro	Tokyo-To			JP
Suzuura; Yasuki	Tokyo-To			JP
Goto; Takakazu	Tokyo-To			JP
Arao; Hideki	Tokyo-To			JP
Tsuzuki; Atsuo	Tokyo-To			JP
Takasawa; Kazuyuki	Tokyo-To			JP
Yamamoto; Hiroshi	Tokyo-To			JP
Konno; Katsutoshi	Tokyo-To			JP

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

9. Document ID: US 6452711 B1

L8: Entry 9 of 26

File: USPT

Sep 17, 2002

US-PAT-NO: 6452711

DOCUMENT-IDENTIFIER: US 6452711 B1

TITLE: Electro chromic assembly based on poly (3,4-ethylenedioxythiophene

derivatives in the electrochromic layer and the ion-storage layer

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Heuer; Helmut-Werner Krefeld DE Wehrmann; Rolf Krefeld DE

US-CL-CURRENT: 359/265; 359/273

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

10. Document ID: US 6452089 B1

L8: Entry 10 of 26

File: USPT

Sep 17, 2002

US-PAT-NO: 6452089

DOCUMENT-IDENTIFIER: US 6452089 B1

TITLE: Solar battery module

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kubota; Yuichi Tokyo JP

US-CL-CURRENT: 136/251; 136/244, 136/246, 136/291, 368/205

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw, Desc Image

11. Document ID: US 6420036 B1

L8: Entry 11 of 26

File: USPT

Jul 16, 2002

US-PAT-NO: 6420036

DOCUMENT-IDENTIFIER: US 6420036 B1

TITLE: Electrochromic polymeric solid films, manufacturing electrochromic devices using such solid films, and processes for making such solid films and devices

DATE-ISSUED: July 16, 2002

INVENTOR-INFORMATION:

CITY STATE ZIP CODE NAME COUNTRY Varaprasad; Desaraju V. Holland MI Zhao; Mingtang Holland ΜT Dornan; Craig Allen Grand Haven MΙ Agrawal; Anoop Tucson AZAllemand; Pierr-Marc Tucson AZLynam; Niall R. Holland MI

US-CL-CURRENT: 428/432; 359/273, 359/275, 428/442

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

☐ 12. Document ID: US 6403741 B1

L8: Entry 12 of 26

File: USPT

Jun 11, 2002

US-PAT-NO: 6403741

DOCUMENT-IDENTIFIER: US 6403741 B1

TITLE: UV-stabilized electrochromic assembly based on

poly(3,4-ethylenedioxythiophene) derivatives

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Heuer; Helmut-Werner Krefeld DE Wehrmann; Rolf Krefeld DE

US-CL-CURRENT: 526/256; 252/500, 252/583, 359/265, 359/270, 359/273, 359/275

Full Title Citation Front Review Classification Date Reference Sequences Attachments KWC Draw Desc Image

☐ 13. Document ID: US 6335479 B1

L8: Entry 13 of 26

File: USPT

Jan 1, 2002

US-PAT-NO: 6335479

DOCUMENT-IDENTIFIER: US 6335479 B1

TITLE: Protective sheet for solar battery module, method of fabricating the same and solar battery module

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamada; Hiroshi	Tokyo-To			JP
Ookawa; Koujiro	Tokyo-To			JP
Suzuura; Yasuki	Tokyo-To			JP
Goto; Takakazu	Tokyo-To			JP
Arao; Hideki	Tokyo-To			JP
Tsuzuki; Atsuo	Tokyo-To			JP
Takasawa; Kazuyuki	Tokyo-To			JP
Yamamoto; Hiroshi	Tokyo-To			JP
Konno; Katsutoshi	Tokyo-To			JP

US-CL-CURRENT: 136/251; 136/244, 136/256, 428/332, 428/336, 428/339, 428/421, 428/426, 428/428, 428/429, 428/441, 428/446, 428/447, 428/689, 428/699, 428/702

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC | Draw Desc | Image |

14. Document ID: US 6327070 B1

L8: Entry 14 of 26

File: USPT

Dec 4, 2001

US-PAT-NO: 6327070

DOCUMENT-IDENTIFIER: US 6327070 B1

TITLE: Electrochromic assembly based on poly(3,4-ethylenedioxythiophene) derivatives in combination with a lithium niobate counterelectrode

DATE-ISSUED: December 4, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Heuer; Helmut-Werner Krefeld DE Wehrmann; Rolf Krefeld DE

US-CL-CURRENT: 359/269; 252/583, 359/270, 359/272, 428/457, 525/186, 525/206

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KNAC Drawn Desc Image

15. Document ID: US 6323988 B1

L8: Entry 15 of 26

File: USPT

Nov 27, 2001

US-PAT-NO: 6323988

DOCUMENT-IDENTIFIER: US 6323988 B1

TITLE: Electrochromic assembly based on poly(3,4-ethylene-dioxythiophene) derivatives with a counterelectrode containing metal oxides from transition group VI or VIII

DATE-ISSUED: November 27, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Heuer; Helmut-Werner Krefeld DE Wehrmann; Rolf Krefeld DE

US-CL-CURRENT: 359/265; 359/270, 359/273

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc Image

16. Document ID: US 6268558 B1

L8: Entry 16 of 26 File: USPT

Jul 31, 2001

US-PAT-NO: 6268558

DOCUMENT-IDENTIFIER: US 6268558 B1

TITLE: Solar battery module

DATE-ISSUED: July 31, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kubota; Yuichi Tokyo JP

US-CL-CURRENT: 136/244; 136/246

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KMIC | Draw Desc | Image

17. Document ID: US 6245262 B1

L8: Entry 17 of 26 File:

File: USPT Jun 12, 2001

US-PAT-NO: 6245262

DOCUMENT-IDENTIFIER: US 6245262 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Electrochromic polymeric solid films, manufacturing electrochromic devices

using such solid films, and processes for making such films and devices

DATE-ISSUED: June 12, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Varaprasad; Desaraju V. Holland MΙ Zhao; Mingtang Holland MI Dornan; Craig Allen Grand Haven MΙ Agrawal; Anoop Tucson Δ7. Allemand; Pierre-Marc Tucson AZLynam; Niall R. Holland MI

US-CL-CURRENT: 264/1.31; 264/1.38, 264/1.7, 264/571

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWWC Drawt Desc Image

18. Document ID: US 6207236 B1

L8: Entry 18 of 26

File: USPT

Mar 27, 2001

US-PAT-NO: 6207236

DOCUMENT-IDENTIFIER: US 6207236 B1

TITLE: Coating composition, coating film, and method for producing coating film

DATE-ISSUED: March 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Araki; Takayuki	Settsu			JP
Tanaka; Yoshito	Settsu			JP
Kumegawa; Masahiro	Settsu			JP
Oka; Noritoshi	Settsu			JP
Shimizu; Tetsuo	Settsu			JP

US-CL-CURRENT: 427/386; 427/387, 427/388.1, 427/389.7

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

19. Document ID: US 6175441 B1

L8: Entry 19 of 26

File: USPT

Jan 16, 2001

US-PAT-NO: 6175441

DOCUMENT-IDENTIFIER: US 6175441 B1

TITLE: Electrochromic device based on poly-(3,4-dioxy-thiopene) derivatives

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Heuer; Helmut Werner	Krefeld			DE
Wehrmann; Rolf	Krefeld			DE
Jonas; Friedrich	Aachen			DE
Osenberg; Frank	Leverkusen			DE

US-CL-CURRENT: 359/273; 359/265, 359/270, 428/457, 524/430

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMIC Draw Desc Image

20. Document ID: US 6154306 A

L8: Entry 20 of 26

File: USPT

Nov 28, 2000

US-PAT-NO: 6154306

DOCUMENT-IDENTIFIER: US 6154306 A

TITLE: Electrochromic polymeric solid films, manufacturing electrochromic devices

using such solid films, and processes for making such solid films and devices

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

STATE CITY ZIP CODE COUNTRY NAME Varaprasad; Desaraju V. Holland MI Holland Zhao; Mingtang MΙ Dornan; Craig Allen Grand Haven MI Agrawal; Anoop AZTucson Allemand; Pierre-Marc Tucson AZLynam; Niall R. Holland MΤ

US-CL-CURRENT: 359/273; 359/265, 359/267, 359/275

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

21. Document ID: US 6002511 A

L8: Entry 21 of 26

File: USPT

Dec 14, 1999

US-PAT-NO: 6002511

DOCUMENT-IDENTIFIER: US 6002511 A

\*\* See image for Certificate of Correction \*\*

TITLE: Electrochromic polymeric solid films, manufacturing electrochromic devices using such solid films, and processes for making such solid films and devices

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

ZIP CODE NAME CITY STATE COUNTRY Varaprasad; Desaraju V. Holland MΙ Zhao; Mingtang Holland MI Dornan; Craig Allen Grand Haven ΜI Agrawal; Anoop Tucson AZAllemand; Pierre-Marc Tucson AZ. Lynam; Niall R. Holland MΙ

 $\begin{array}{l} \text{US-CL-CURRENT: } & \underline{359/265}; & \underline{296/216.01}, & \underline{296/84.1}, & \underline{296/96.19}, & \underline{296/97.1}, & \underline{359/267}, & \underline{359/275}, \\ & \underline{52/785.1}, & \underline{52/785.12}, & \underline{52/786.1}, & \underline{52/786.11}, & \underline{52/786.12}, & \underline{522/103}, & \underline{522/121}, & \underline{522/182}, \\ & \underline{522/75}, & \underline{522/96} \end{array}$ 

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC | Draw Desc | Image |

22. Document ID: US 5986203 A

L8: Entry 22 of 26

File: USPT

Nov 16, 1999

US-PAT-NO: 5986203

DOCUMENT-IDENTIFIER: US 5986203 A

TITLE: Solar cell roof tile and method of forming same

DATE-ISSUED: November 16, 1999

Record List Display

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Hanoka; Jack I.

Brookline

MA

Real: Markus

Oberberg

CH

US-CL-CURRENT: <u>136/251</u>; <u>156/285</u>, <u>156/306.3</u>, <u>156/308.2</u>, <u>156/309.6</u>, <u>257/433</u>, <u>438/66</u>, <u>52/173.3</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

#### 23. Document ID: US 5910854 A

L8: Entry 23 of 26

File: USPT

Jun 8, 1999

US-PAT-NO: 5910854

DOCUMENT-IDENTIFIER: US 5910854 A

\*\* See image for Certificate of Correction \*\*

TITLE: Electrochromic polymeric solid films, manufacturing electrochromic devices using such solid films, and processes for making such solid films and devices

DATE-ISSUED: June 8, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Varaprasad; Desaraju V. Holland MΙ Zhao; Mingtang Holland ΜI Dornan; Craig Allen Grand Haven MI Agrawal; Anoop Tucson AZAllemand; Pierre-Marc AZTucson Lynam; Niall R. Holland MΙ

US-CL-CURRENT: 359/273

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw. Desc Image

#### 24. Document ID: US 5762720 A

L8: Entry 24 of 26

File: USPT

Jun 9, 1998

US-PAT-NO: 5762720

DOCUMENT-IDENTIFIER: US 5762720 A

TITLE: Solar cell modules with integral mounting structure and methods for forming

same

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hanoka; Jack I. Brookline MA Shingleton; Jefferson Auburn NY

US-CL-CURRENT: <u>136/251</u>; <u>156/285</u>, <u>156/306.3</u>, <u>156/308.2</u>, <u>156/309.6</u>, <u>438/64</u>, <u>438/66</u>,

## 52/173.3

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US-CL-CU	RRENT: 264/272.15	<u>5; 264/252, 264</u>	/ <u>272.16</u> , <u>264</u> / <u>2</u>	<u>75, 264/277, </u>	438/64
	Beze; Norman L. Simi Vall				
INVENTOR-INFORMATION: NAME Anderson; A. Jerome		CITY Newbury P	STATE ark CA	ZIP CODE	COUNTRY
DATE-ISS	UED: April 16, 19	991			
TITLE: M	ethod of fabricat	ing photovolta	ic module		
	O: 5008062 -IDENTIFIER: US 5	5008062 A			
***************************************	26. Document ID:	US 5008062 A	File: USPT		Apr 16, 1991
Full	Title   Citation   Front   Review	Classification Date Refer	ance   Sequences   Attachme	ents KANC I	Orawi Desc   Image
US-CL-CUI	RRENT: <u>136/251</u> ; <u>1</u>	.56/ <u>285</u> , <u>156/30</u>	<u>6.3</u> , <u>156/308.2</u>	, <u>156</u> / <u>309.6</u> ,	<u>257/433</u> , <u>438/66</u>
NAME Hanoka;	Jack I.	CITY Brookline	STATE Z MA	IP CODE	COUNTRI
	-INFORMATION:	CTTV	מייני אייני פייני	ID CODE	COUNTRY
DATE-ISSU	UED: April 21, 19	98			
TITLE: So	olar cell modules	with improved	backskin and r	methods for i	forming same
DOCUMENT-	O: 5741370 -IDENTIFIER: US 5 mage for Certific		ion **		
L8: En	try 25 of 26		File: USPT		Apr 21, 1998
		US 5741370 A			

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Previous Page Next Page